



The official magazine of the LEGO TECHNIC Club

December 1996

**The best of '96.**

A round-up of this year's  
LEGO TECHNIC models.

**What's in store for '97?**

Introducing CD ROM.  
See inside for a sneak preview!

Another chance to join the  
LEGO TECHNIC Building Challenge!  
Dare you enter?

**Building fever!**  
A Building Plan featuring  
LEGO TECHNIC  
pneumatic parts.

Who will Tring  
zap in this issue?  
It could be you!

**LEGO** Technic

**LEGO**



LEGO TECHNIC IS JUST

GR...R

A LOOK BACK AT SOME OF THE BEST LEGO TECHNIC MODELS OF 1996

CALLING ALL  
LEGO TECHNIC  
CRAZY DUDES!  
IT'S BEEN A  
REAL COOL  
YEAR WITH  
LOTS OF GREAT  
MODELS TO  
BUILD!

Here's a look at some of  
this year's hottest models  
to help you fill your X-mas  
stocking with lots of  
LEGO TECHNIC!

The Starter Sets  
are just great for  
dudes who want to  
see what LEGO  
TECHNIC is all  
about!

Get in on the action  
with the LEGO TECHNIC  
Transformer Set (8244)  
which can build any one of  
an amazing nine models  
including a helicopter,  
breakdown truck and snow  
scooter!

Travel by land,  
sea or air with the  
LEGO TECHNIC  
Amphipower (8286)  
amphibium vehicle and  
helicopter! And hit  
the streets with the  
truly wicked LEGO  
TECHNIC Fire  
Response Unit (8280)!  
Both the amphibium  
vehicle and Fire  
Response Unit can be  
motorised with the  
LEGO TECHNIC 9V  
Motor Set (8720).

Major dudes will want to  
get serious with our LEGO  
TECHNIC Advanced Sets.

The LEGO  
TECHNIC Multi  
Racer (8456) - shown  
here built as a swamp  
boat mode - features  
the cool new LEGO  
TECHNIC Fibre  
Optic System that  
lights up at the  
flick of a switch!  
Then there's the

LEGO TECHNIC  
"FOS Light" Space  
Shuttle (8480). As  
well as fibre optics,  
it's got two motors  
AND builds a giant  
submarine!

And for a truly wicked  
model building experience,  
try the LEGO TECHNIC  
Control II (8485), with its  
fab programmable control

and three motors.  
Build the high-tech  
helicopter, dinosaur  
or hovercraft, or  
design your own  
ultimate machine!

With sets like  
these, 1996 was a  
hot, hot year. So  
don't miss your  
chance to get a piece  
of the LEGO TECHNIC  
action this X-mas!

"BLAST OUT  
THE HOSE!"

8280

"LEGO TECHNIC FIRE  
CREW TO THE RESCUE!"

"Wow!..."

"CHECK OUT  
THESE FANTASTIC  
PRIZES!"

8286

"CHOPPER'S  
AWAY!"





# EAT!!



8425



8443



8480



8456

FIBER OPTIC



## LEGO TECHNIC XMAS CHECKLIST

- LEGO TECHNIC Space Shuttle ✓
- LEGO TECHNIC Eagle Patrol ✓
- LEGO TECHNIC Amphipower ✓
- LEGO TECHNIC Sand Stormer ✓
- LEGO TECHNIC Super Kart ✓
- LEGO TECHNIC Arizona ATV ✓
- LEGO TECHNIC Octan Indy Racer ✓
- LEGO TECHNIC Mobile Crane ✓

## COMPETITIONS TIME

Get this! You could win one of over **50** super-cool **LEGO TECHNIC** prizes in this issue's prize competitions!

### QUICK START! COMPETITION

Fancy winning one of these?

- 1st prizes of 3 LEGO TECHNIC Amphipower sets (8286)

- 2nd prizes of 8 LEGO TECHNIC "Motorbike" T-shirts
- Runners-up prizes of 15 LEGO TECHNIC caps

All you need to do is answer the following question.....

How many models can you build from the LEGO TECHNIC Transformer set (8244)

- a) 3    b) 6    c) 9

### ADVANCE TO GO! COMPETITION

Think you're smart enough to win one of these **hot** prizes? Then try it, dude!

- 1st prizes of 3 LEGO TECHNIC Pneumatic Logger sets (8443)
- 2nd prizes of 8 LEGO TECHNIC Footballs
- Runners-up prizes of 20 LEGO TECHNIC Keyrings

To win, send us the answer to this question.

Which part of the LEGO TECHNIC Logger is operated by pneumatics?

- a) **Wheels**    b) **Crane arm**  
c) **Lights**

For both comps, send your answer on a POSTCARD ONLY to LEGO TECHNIC Club, Wrexham LL13 7TQ. Closing date: 31st December 1996. Mark your entry "Quick Start" or "Advance to Go" competition...and please remember to include your age and LEGO TECHNIC Club membership number on your entry!



LOOK AT THESE FANTASTIC NEW LEGO TECHNIC

New for  
'97 is  
this wicked  
**LEGO TECHNIC**  
V Boat with  
CD Rom (8299)!

Time was when V boats  
were feared hunters of  
the seas, attacking  
their enemies with  
deadly torpedoes!  
Luckily, these deep sea  
vessels now have more  
peaceful uses, like  
exploring uncharted  
depths!

But that's  
not all!  
Other CD  
Rom goodies  
include.....

- a guided tour  
of a submarine
- building  
instructions for a  
scientific base  
and five  
smaller models
- information on  
sea creatures
- an update on the new  
**LEGO TECHNIC**  
1997 range!
- Useful "Tips  
and Tricks"  
to brush up  
your building  
skills

DIVE

DIVE

DIVE!

PNEUMATIC  
PUMP

LARGE CAPACITY  
AIR TANK

The **LEGO Technic V**  
Boat submarine features a  
cool deep sea scooter and  
pneumatics system to let you  
explore the undersea world!  
As well as the usual  
printed instructions, you also  
get a CD Rom  
guide to building  
the boat.

The new "AIR TANK" (coloured blue  
on the model) is a brilliant new  
feature in the world of LEGO  
TECHNIC pneumatics! By pumping this  
large tank full of air - you are able  
to perform several pneumatic  
operations in succession, without  
having to pump the main cylinder  
again and again. COOL or what?

IN THE SHOPS FROM



# STARTER SETS SURFACING IN JANUARY '97

CD ROMS OR COMPACT DISC READ-ONLY MEMORY, ARE USED TO STORE INFORMATION FOR COMPUTERS. A SINGLE DISC CAN HOLD ABOUT 250,000 PAGES OF TEXT AND PICTURES.

CD Rom's are called Read-Only as at the moment the prerecorded material cannot be erased or recorded over. Although at present research is being carried out so that you will soon be able to record onto them.

A CD Rom player can be fitted to a personal computer just like another disk drive. These work by spinning the CD Rom and then a laser aims a concentrated beam of light at the spinning disc.

The laser beam then follows the track of pits which have been created on the disc as the material has been recorded onto it.

As the laser beam reflects off the pits, a light-sensitive device turns it into electric signals. These signals are then decoded into words or pictures on the computer screen.

**REALISTIC GRAB**



Meanwhile, there are more new starter models for early '97!

In the skies, the cool **LEGO TECHNIC Eagle II (8232)** aircraft has moving propellers. AND the set builds a racing car that can be motorised with set 8720.

For more high-speed thrills there's the **LEGO TECHNIC Elastic Turbo (8205)**, featuring elastic power and able to build two other vehicles!




Staying with the action, the **LEGO TECHNIC Warthog (8229)** is a 2-in-1 vehicle that like its wild pig namesake, has a nose for sniffing out action!

The tracked vehicle can be split to turn the upper unit into an aircraft, while the base section becomes a light land vehicle. The set also builds into a fork lift truck which can be motorised with set no. 8720.



# JANUARY '97





IF YOU THINK YOUR  
MODEL IS BETTER THAN  
OURS - WHY NOT SEND  
US A PHOTO OF IT?

## So you think pneumatics is just a neat way to power up your LEGO TECHNIC models? **Wrong, dude!**

Pneumatics is a high tech science that uses compressed air to make things happen....from drilling holes to lifting loads!

You may be using pneumatic technology yourself without even knowing it. If your bike has tyres that need pumping up, what you're doing is filling them with compressed air - your pneumatic tyres are using the air to give you a smoother ride!

And another use of pneumatics is hard to avoid - especially if you've ever walked past a building site, with its hammering pneumatic drills! These use compressed air to power drills that break up hard surfaces like concrete.

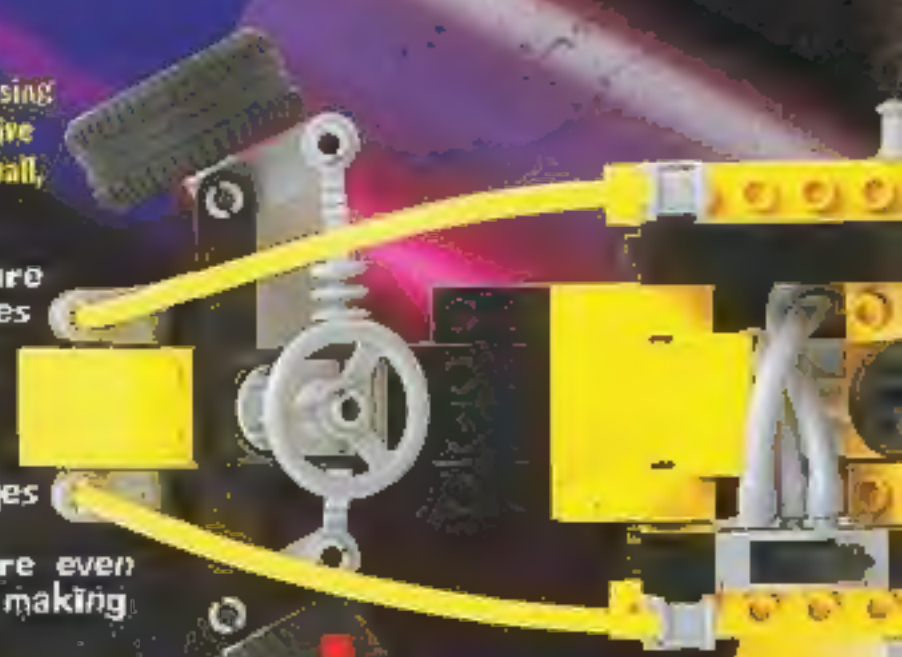
These drills and other pneumatic machines work by forcing air into a

cylinder to push a piston, or by using a stream of compressed air to drive a rotating motor - a bit like a small, high-speed windmill!

Pneumatic pistons are used in heavy-duty cranes and hoists and are the business when it comes to doing all sorts of work - from opening doors in railway carriages to moving things on conveyor belts. There are even pneumatic machines for making cheese!

When it comes to powering up tools like drills, screwdrivers and wrenches, rotating pneumatic motors do the job. Their light weight compared to electrically powered equipment means they can be used widely in factories, shipbuilding and construction.

So when you're taking the strain with our LEGO TECHNIC Pneumatic Logger (8443) or LEGO TECHNIC Mobile Crane (8460), remember, you're using the same high-tech systems that keep the wheels of industry turning!



LEGO Technic's designers have let air power go to their heads with this cool custom-built tow truck! Pump up the pneumatic cylinder, flip the switch and let the crane take the strain!

If you study the pictures on this page, you should be able to build the model yourself. But don't worry if your truck doesn't end up exactly like ours - you may even come up with a design that's even cooler!





# LEGOLAND WINDSOR

**PNEUMATICS IS THE HIDDEN POWER SOURCE THAT MAKES THE RIDES AND MODELS AT LEGOLAND DO THEIR THING!**

The LEGO TECHNIC Orchestra – a life-sized quartet of drummer, double bass player, saxophonist and guitarist – runs on pneumatic power!

Even the giant-sized polar bear, Pirate Falls ride and other LEGOLAND attractions are made to move with compressed air systems built with help from pneumatics experts.

LEGO's model makers worked with the company's technicians to design the complicated valves and cylinders and make sure they would fit into the models. And to help everything run smoothly, one of LEGO's design team members went on a special course to learn all about pneumatics!

So next time you're at LEGOLAND and you're wondering how our massive LEGO spider spins its web, or where the wicked wolf gets the energy to chase Little Red Riding Hood, you'll know it's all done with **pneumatics!**

REMEMBER - DON'T LET PNEUMATIC TUBING GET TOO TWISTED OR BENT AS THE AIR WON'T BE ABLE TO PASS THROUGH EASILY!



THEY'RE COMING IN  
THICK AND FAST....!

IT'S THE

GREAT

LEGO  
TECHNIC  
BUILDING

CHALLENGE

IT'S SIMPLY RIGHT OUT OF THIS WORLD!

IN THE LAST ISSUE .....  
WE DARED YOU TO TAKE  
ON THE CHALLENGE. WE  
SHOWED YOU A PILE OF  
LEGO TECHNIC ELEMENTS  
AND WE SAID: "BUILD  
SOMETHING COOL!"

models we've seen, and they're still  
coming in thick and fast!

→ Take a look at the pics below for  
your hottest entries to date!

→ To give you all a chance to take on  
The Challenge, we're running it in this and  
the next issue of LEGO TECHNIC  
Magazine.

→ You are "RIGHT ON!"

→ Since then, our post bag has been  
overflowing with some of the wackiest

→ So get your cool building head on  
and get started!

EXAMPLES  
FROM THE  
POST BAG

..... THE PACE IS GETTING HOT!

OLIVER CAMPBELL  
OF LINCOLN



DAVID RICHARDSON  
OF BRACKNELL



THOMAS ELLIOT  
OF BATH



OK! NOW HERE'S THE CHALLENGE



# HOW TO ENTER

1. Use **AS MANY** of the LEGO TECHNIC elements (illustrated below) as you can. We understand that you won't have everything, but try your best.

**NOW IT'S OVER TO YOU ....**

**CAN YOU MEET THE CHALLENGE?**

2. Your model **MUST** also include 2 GEAR WHEELS of any size or type.
3. As an **EXTRA OPTION** you can use 4 WHEELS, HUBS and TYRES - these can be of any size or type.
4. You can use **AS MANY** cross axles, corner for pegs, ball shafts, bushes, bush joints, etc, as you like.
5. You can then add up to 6 **ADDITIONAL ITEMS** of your choice. For example, you may want to add extra gear wheels, a motor, pneumatics - whatever you choose!

Once you've built your model following the instructions, take a photo of it and send it to us at:

The LEGO Technic Building Challenge  
LEGO UK Ltd  
Wrexham, LL13 7TQ

But **don't** take your model apart as we'll need it if you are a winner!

**And the Prizes?**

**THEY'RE KNOCKOUT!!**

REMEMBER - IT DOESN'T MATTER WHAT COLOUR THE ELEMENTS ARE. IT'S THE DESIGN WE'RE LOOKING FOR!

## AS 1st PRIZE WINNER

see **YOUR** LEGO TECHNIC model featured in a future issue - as a Building Plan for other club members to build. You'll also win a great prize from the 1997 LEGO TECHNIC range!

## 2ND PRIZES

Ten runners-up will each get a **SPECIAL** LEGO TECHNIC Building Challenge Certificate!

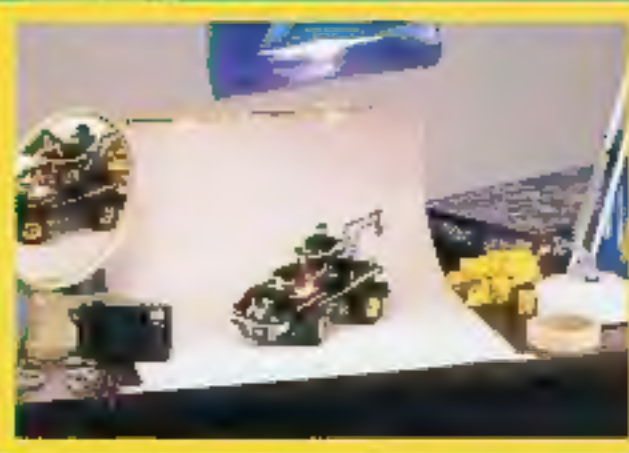
**REMEMBER - YOU MUST INCLUDE 2 GEAR WHEELS OF ANY SIZE OR TYPE. AS AN EXTRA OPTION, YOU CAN USE 4 WHEELS, HUBS AND TYRES - THESE CAN ALSO BE OF ANY SIZE OR TYPE.**

## CHECK OUT THESE TIPS ON TAKING GOOD PHOTOS!

### WHAT YOU NEED:

- 35 mm automatic camera with flash
- Film
- Large sheet of paper or plain coloured material - light shades are best as the model will stand out better
- Sticky tape
- Desk lamp - used to create light
- Mirror - to reflect light into areas of shadow
- Cereal boxes
- Blue colour correction filter

### HERE'S HOW IT'S DONE:



Create a mini studio in a well-lit room using a desk (a chair, table or kitchen top will also do).

1. Make a backdrop with the cereal boxes (we used two). Cover with the paper or material and secure with sticky tape.
2. Position the lamp so it shines down onto the model. This creates areas of shadow - use the mirror to reduce the shadows by reflecting light into them.
3. Secure the blue correction filter around the lamp so it covers but doesn't touch the bulb. This will balance the lamp's yellow glow with the camera's white flash.

You can buy this filter from most camera shops.

4. You're now ready to take your photo!
- Here's how your photographed model should look!





# TECH TALK

## TECH TALK

### TECH TALK

**START** Tring's been buzzin' down his line again. He's been doin' his 'buzziness' and seeking out LEGO TECHNIC builders and sizing them up for TECH TALK.

Tring's identity is hidden from us. All we know is that he's a LEGO TECHNIC fanatic hungry for any gen he can get on other LEGO TECHNIC builders. His phone calls could strike anyone of you reading now!

So if you want him to pick you out, send in photographs of your favourite LEGO TECHNIC models for Tring's attention - we'll make sure he gets them.

This month Tring's shout goes out to Peter Goodrich, from Leicester.

Peter, tell me something about yourself.

I'm 13 years old and I have been building models with LEGO for seven years. For the past four years I have used LEGO TECHNIC.

Apart from LEGO TECHNIC my other main hobby is motor sport, with Damon Hill being one of my favourite drivers. I also support Leicester City Football Club.

Why do you like LEGO TECHNIC sets?

With LEGO TECHNIC I can build anything that I want to. It's the best part of LEGO building.

What are you working on at the moment?

I have recently bought some more LEGO TECHNIC sets and I am currently working on the LEGO TECHNIC Super Car. This is bigger and better than the one I have just finished.

Where do you get your ideas from?

After visiting the Birmingham Heritage Motor Centre, this gave me the idea to build a car. I decided to base my model on a Land Rover after seeing one there.

What do you like best about LEGO TECHNIC Magazine?

I like reading about new exciting ranges and I especially liked the Damon Hill interview. I also like the LEGO TECHNIC Tips, which help me when I am building my models.

That's all for now but look out for the next issue when it could be you!

Watch this space!

Signed Tring.

END





**LOW  
BRIDGE**



**DRESS**



**NO PROBLEM!**

# COMPETITION UPDATE

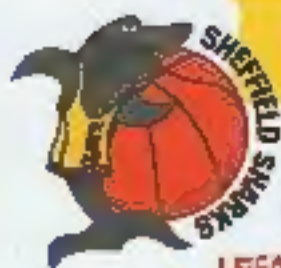
### 1st Prize:

**2nd Prize:**

### 8455 LEGO TECHNIC Multi-Racer Set

### 3rd Prize:

Video copies of "Apollo 13"  
Jason Kapadia of London  
Christopher Henry of Douglas  
Chris Pearce of Barnsley  
Thomas Andrews of Horsham  
Dean Hudd of Bristol  
Paul Thomas Skiba of Eastleigh  
Mark Riches of Wincoburn  
Ryde Hutchinson of Gillingham  
Matthew Cuthbert of Worcester  
Matthew Liddle of Oxford



**LEGO TECHNIC** Mag talks to Roger 'Huggy' Huggins - Captain of ultra cool LEGO-sponsored basketball team, the Sheffield Sharks.

**LEGO TECHNIC** Mag : Lots of LEGO TECHNIC club members are basketball fans 'cos it's such a cool sport. What does LEGO's sponsorship mean to the team?

**ROGER HUGGIV HUGGINS:** We get to wear the great LEGO logo on our shirts, which means people know we're out to win - just like LEGO TECHNIC Club members!

**LPM:** So how do you get to be on a top team like the Sharks?

**RHH:** Hard work and lots of practice! Getting your moves right is crucial if you want to get to the top and there's no better way than by playing at junior level. Find out from your school or local leisure centre.

**LT/M:** Is the Sheffield Sharks your first major team?

**RHH:** Before the Sharks I played for Hawaii Pacific University and Brother Ghent - but the Sharks is definitely the coolest team on the court!

**LTM:** Your own nickname is pretty cool, Huggy. Where did you get it?

**RHH:** The boys on the team gave it to me 'cos of my surname, Huggins.

**LTM:** Are you the tallest on the team?

**RHH:** I'm 6 ft 7" but my mate Mark Harvey is the tallest at 6 ft 8". But you don't have to be tall to play well - Dean Hamez is just 5 ft 10".

**LTM:** What are your hobbies?

## FIN: Football and building LEGO TECHNIC models

LTM: Thanks for the plug, Huggy! And good luck to the Sharks for '07... we know you'll be the coolest!

Look out for **Sharks** news soon!



**MIND BOGGERS**  
**PUZZLES** AND  
**Teasers**  
**JUST for FUN!**

**Answers for your last issue of TECHNICAL**

**BULL. 5-575**

5. **WDC**

**NO HIDING PLACES**

• **Prevalence** – the proportion of the population with a disease at a particular point in time

## AROUND EUROPE

The latter 'A'  
Italy, Portugal, France,  
Wales, England and  
Spain

# SEARCHING

**ALL** the answers to the clues are four-letter words and you have to enter them into the grid, starting from the outer squares. When you have done that you'll find a word to do with bicycles, reading clockwise round the innermost squares from number 9.

- |                         |                         |
|-------------------------|-------------------------|
| 1 Compact - plays music | 5 Green vegetables      |
| 2 Open/Close            | 6 Young sheep           |
| 3 Capital of Norway     | 7 Molted volcanic rock  |
| 4 You see with them     | 8 It grows on your head |



**ALL SQUARE**



**Write the answers in these clues in the grid, and you'll find that they read the same across and down.**

- 1 Type of sweet flan
- 2 Large continent that contains India and China
- 3 You ice-skate on it
- 4 Grab, snatch



